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**Abstract**

The present invention relates to a biological joint construct, which is produced at least partly in vitro, which comprises at least one biocompatible carrier material, cartilaginous tissue and osseous tissue, cartilaginous tissue and osseous tissue being firmly connected to one another. The invention moreover relates to a process for the production of this joint construct. A further aspect of the invention is osseous tissue which contains transfected cells, and a process for its preparation. A further aspect of the invention is osseous tissue that contains vascularizing cells or angiogenic growth factors, and a process for its preparation.